SATELLITE SYSTEMS SPECIFICATIONS SERIES 4696 and 5810 LOAD LUGGER®

LL-20S LL-26S CH-500MS and Containers

TRUCKWELD EQUIPMENT CO.
739-9th NORTH SEATTLE, WASH. 98109
PHONE AT 4-1172

15,000 TO 26,000 POUND MASTER CAPACITY

3000 TO 5000 POUND SATELLITE CAPACITY

The Satellite System of handling materials adds to the cost-saving advantages of the Load Lugger. In addition to its normal use for lifting, hauling, and dumping loads collected in detachable containers, the Load Lugger equipped truck can lift Satellite containers spotted at strategic locations where materials accumulate in smaller volumes, and dump them directly into the large Master Container on the Load Lugger deck. One trip to the dump with the Master Container can dispose of material accumulated in six to ten Satellite containers.

HEIL Quality PRODUCTS

THE HEIL CO. MILWAUKEE, WISCONSIN

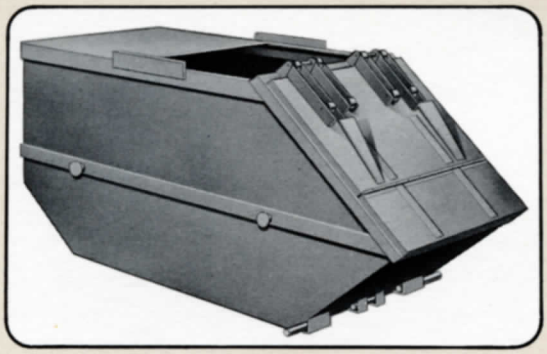
SALES OFFICES: Woodbridge, N.J.; Atlanta, Ga.; Cleveland, Ohio; Chicago, Ill.; Milwaukee, Wis.; Kansas City, Mo.; Denver, Colo.; Dallas, Texas; Los Angeles, Calif.; Seattle, Wash.; Toronto, Ont., Canada.

DISTRIBUTORS IN PRINCIPAL CITIES

LL-65113

STANDARD HEIL SATELLITE SYSTEM CONTAINERS

For Use with series 4696 and 5810 Load Lugger hoists



Master Container — Enclosed model has large charging opening in top equipped with roller-mounted, cable-operated door. All-welded steel construction: 3/16 sides, 1/4 bottom, 10 ga. top and discharge door. (Also available in open type, without top or discharge door.)

Satellite Container — Standard construction 14 ga. steel body ruggedly braced at all wear and stress points. Available in open or enclosed types, with or without casters.

Covers — Three-section, double-hinged design folds up and back to hook behind container, affording full opening for dumping into Master container.

Casters — Two rigid, two swivel, 6" diameter x 2" tread rubber wheels with roller bearings. Load capacity 500 pounds per wheel.

SERIES 4696

TYPE	CAPACITY	WEIGHT		OVERALL DIMENSIONS			BODY DIMENSIONS		
		OPEN	ENCLOSED	LENGTH	WIDTH	HEIGHT	LENGTH	WIDTH	HEIGHT
MASTER	12 CU. YD.	2900	3400	150	72	82	146	64	72
SATELLITE	1 CU. YD.	335	385	41	47	36	33	40	36
	1½ CU. YD.	365	415	44	61	36	36	54	36
SATELLITE w/6" CASTERS	1 CU. YD.	350	400	44	47	40	36	40	33
	1¼ CU. YD.	390	440	44	61	39	36	54	32

SEE BULLETIN LL-64125 FOR STANDARD CONTAINERS

Where dimensions are critical, confirmation should be obtained from factory.

SERIES 5810

TYPE	CAPACITY	WEIGHT		OVERALL DIMENSIONS			BODY DIMENSIONS		
		OPEN	ENCLOSED	LENGTH	WIDTH	HEIGHT	LENGTH	WIDTH	HEIGHT
MASTER	16 CU. YD.	3300	3900	171	72	91	167	64	79
SATELLITE	1 CU. YD.	330	380	42	47	40	36	40	40
	1½ CU. YD.	370	425	48	47	44	40	40	44
	2 CU. YD.	410	465	48	61	44	40	54	44
SATELLITE w/6" CASTERS	1 CU. YD.	350	400	44	47	40	36	40	33
	1½ CU. YD.	390	445	48	61	40	40	54	33
	1¾ CU. YD.	415	470	48	61	44	40	54	37

SEE BULLETIN LL-65107 FOR STANDARD CONTAINERS

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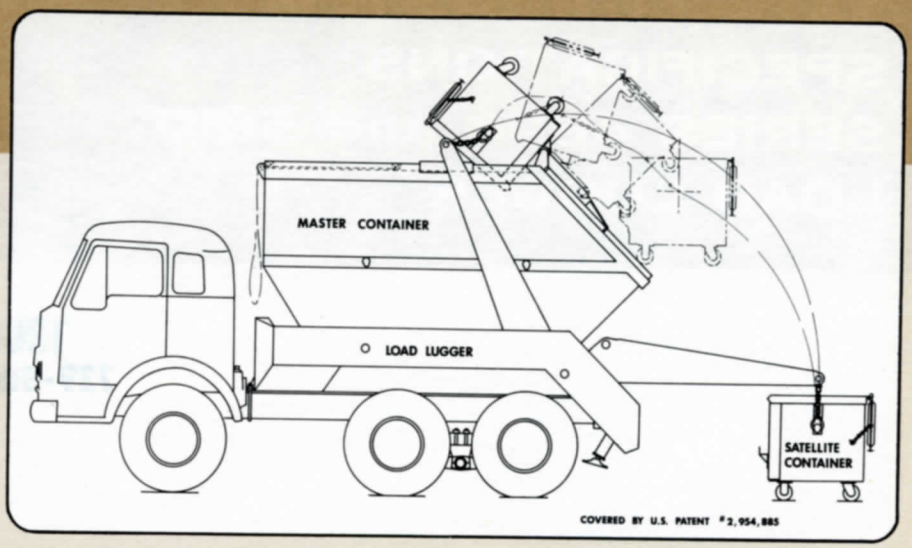
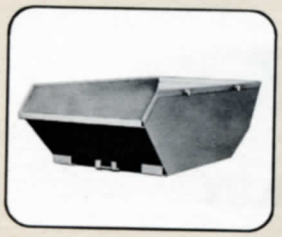


The Heil Load Lugger is a truck-mounted hydraulically operated hoisting mechanism designed to handle detachable containers in a variety of types and sizes. It consists of a boom assembly pivoted at the rear of a flat bed subframe, jackleg stabilizers to provide support for the load during lifting, and a dump hook for tilting the containers to discharge the load. Satellite System attachments enable the Load Lugger to lift specially designed Satellite containers and dump them into a Master Container carried on the deck. Its simple design and rugged construction, using top quality heavy-duty components throughout, insure long-life, trouble-free, fast, smooth power for handling heavy loads.

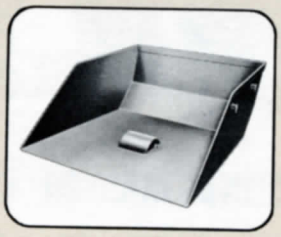
GROSS LIFTING CAPACITY — SATELLITE OPERATION

40" Wide Container — 3000 Lbs.
54" Wide Container — 5000 Lbs.

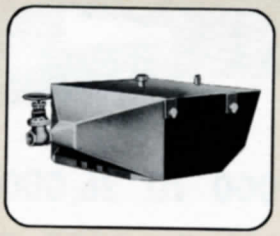
THESE STANDARD CONTAINERS CAN ALSO BE HANDLED BY THE HEIL SATELLITE LOAD LUGGER



HS — For bulk materials. Open top, flared sides. Empty containers can be nested for storage or transportation.

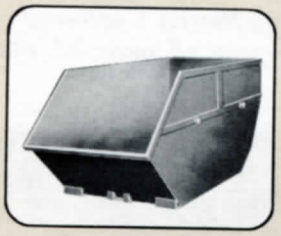


OE — Skip-type, for heavy bulk materials — discharge end at ground level for easy loading. Open top, flared sides. Empty containers can be nested.

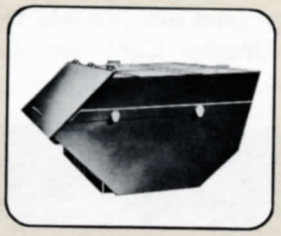


EX — For all types of fluids. Steel construction. Also available in stainless or aluminum or with neoprene, rubber, synthetic resin or similar linings.

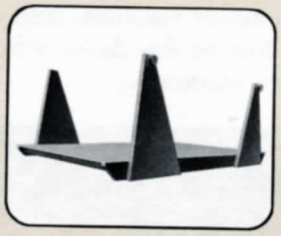
LS — For sludge and liquids. Fully enclosed. Full width discharge door, and one top charging door.



ES — For light bulk materials. Open end above dumping lip, open top, extended sides for increased volume.



AB — For loose materials — dusts, powders, and refuse. Fully enclosed. Large discharge door. Two top sliding charging doors. (Available as AB-2 which has two hinged side charging doors.)



Pallets — Heavy duty construction, designed to transport and store lumber, roofing materials and building materials in bags, kegs, drums and crates.

Tanks — For all types of fluids. Steel construction. Also available in stainless, aluminum, or with neoprene, rubber, synthetic resins and similar linings.

FOR DETAILED SPECIFICATIONS AND DIMENSIONS

Series — 4696 LL-20S, LL-26S Load Lugger — See Bulletin LL-64125
Series — 5810 CH-500MS Load Lugger — See Bulletin LL-65107

SPECIFICATIONS
SERIES 2157
LOAD LUGGER® SYSTEM

CH-300
CH-400
and
Containers

9,000 TO 12,000 POUND NET LIFTING CAPACITY

The Load Lugger System of handling materials offers countless opportunities to reduce costs.
A Load Lugger-equipped truck, plus Load Lugger Containers, replaces a number of conventional trucks.
Investment in equipment is lower, less labor is needed, operation and maintenance costs less.
The Load Lugger system handles all types of materials — liquids, solids or gases.
It gives you greatest versatility and efficiency for your money.

HEIL Quality Products

THE HEIL CO. MILWAUKEE, WISCONSIN

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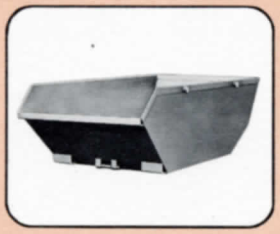
DISTRIBUTORS IN PRINCIPAL CITIES

LL-65102

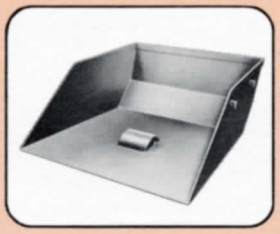
STANDARD HEIL LOAD LUGGER CONTAINERS

For Use with all series 2157 Load Lugger hoists

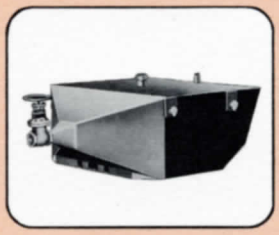
All Containers available with casters or designed for use with dollies



HS—For bulk materials. Open top, flared sides. Empty containers can be nested for storage or transportation.

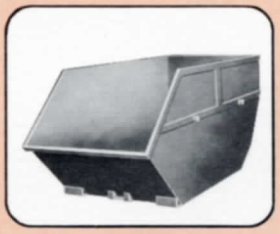


OE — Skip-type, for heavy bulk materials — discharge end at ground level for easy loading. Open top, flared sides. Empty containers can be nested.

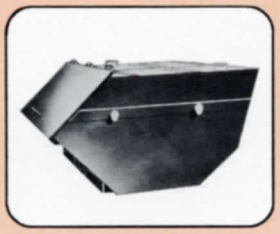


EX — For all types of fluids. Steel construction. Also available in stainless or aluminum or with neoprene, rubber, synthetic resin or similar linings.

LS — For sludge and liquids. Fully enclosed. Full width discharge door, and one top charging door.



ES — For light bulk materials. Open end above dumping lip, open top, extended sides for increased volume.



AB — For loose materials — dusts, powders, and refuse. Fully enclosed. Large discharge door. Two top sliding charging doors. (Available as AB-2 which has two hinged side charging doors.)

Pallets — Heavy duty construction, designed to transport and store lumber, roofing materials and building materials in bags, kegs, drums and crates.

Tanks — For all types of fluids. Steel construction. Also available in stainless, aluminum, or with neoprene, rubber, synthetic resins and similar linings.

STANDARD CONTAINER SPECIFICATIONS

TYPE	CAPACITY CU. YDS.	WEIGHT EMPTY (LBS.)	HEIGHT (INCHES)	LIP HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	LENGTH OF BASE (INCHES)	WIDTH OF BASE (INCHES)
HS	3 CU. YDS.	1015	36	27	79	70	29	64
	4 CU. YDS.	1240	42	29	89	70	33	64
OE	3 CU. YDS.	1015	36	—	82	70	59	64
	4 CU. YDS.	1240	42	—	92	70	65	64
ES	5 CU. YDS.	1455	60	30	84	64	30	64
	6 CU. YDS.	1660	66	33	87	64	30	64
AB	3 CU. YDS.	1147	40	20	72	64	30	64
	4 CU. YDS.	1408	48	24	81	64	30	64
	5 CU. YDS.	1655	60	30	84	64	30	64
	6 CU. YDS.	1888	66	33	87	64	30	64
AB2	5 CU. YDS.	1655	60	30	84	64	30	64
	6 CU. YDS.	1888	66	33	87	64	30	64
LS	500 GALS.	1000	36	36	76	64	28	64
	800 GALS.	1400	46	46	96	64	32	64
PALLETS		400	36	3	42	60	36	64
		540	36	16	72	60	30	64

Where dimensions are critical, confirmation should be obtained from factory.

SPECIAL CONTAINER DESIGNS ON REQUEST

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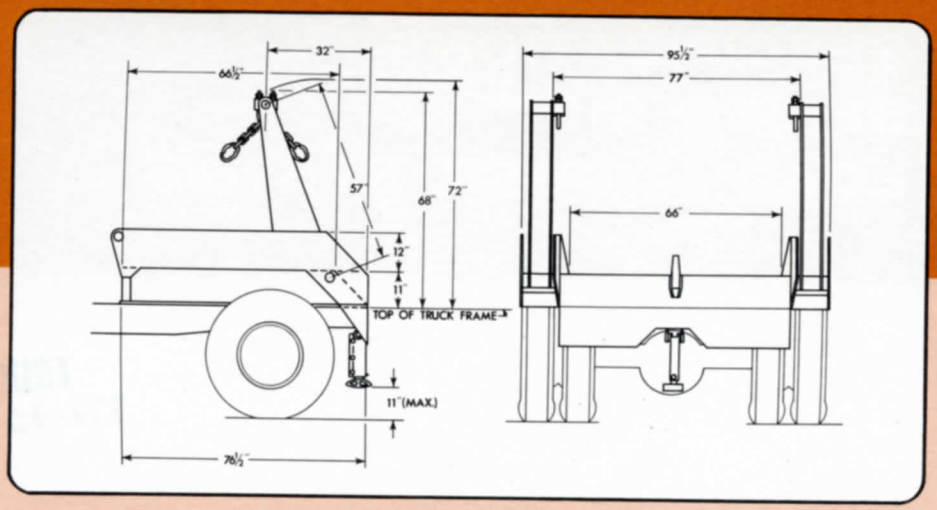


The Heil Load Lugger is a truck-mounted hydraulically operated hoisting mechanism designed to handle detachable containers in a variety of types and sizes. It consists of a boom assembly pivoted at the rear of a flat bed subframe, jackleg stabilizer to provide support for the load during lifting, and a dump hook for tilting the containers to discharge the load. Its simple design and rugged construction, using top quality heavy-duty components throughout, insure long-life, trouble-free, fast, smooth power for handling heavy loads.

SPECIFICATIONS — MODELS CH-300 and CH-400

SUBFRAME — All-welded steel construction consisting of two ten inch channel longitudinal members, 10" channel front crossmember, and 5" angle and 4" H beam rear crossmembers, quarter inch steel deck, and side walls with heavy bosses for cylinder and arm pivots.

BOOM — Consists of two, all-welded, lift arms connected at the base with shear pins to a 2 11/16" diameter load shaft which pivots in heavy bronze bushings in the subframe. Boom assembly is operated by two heavy-duty, double acting hydraulic cylinders pivoted in bronze bushings at both ends.

HYDRAULIC SYSTEM — Reservoir, a compact unit assembly with four-way control valve mounted on bottom, is located at front of subframe beneath deck and is equipped with a vented filler plug. Pump is a gear type mounted separately from reservoir and valve for ease of installation. All fittings, hoses, and piping are high pressure type with burst pressure at least four times operating pressure. Lift cylinders are heavy duty, double acting type which have removable heads for access to internal parts. Cylinder rods are chrome plated.

JACKLEG — Ground-seeking, self-locking mechanical type, mounted in center of rear crossmember of the subframe. Provides support for over-hung load during lifting and lowering operation.

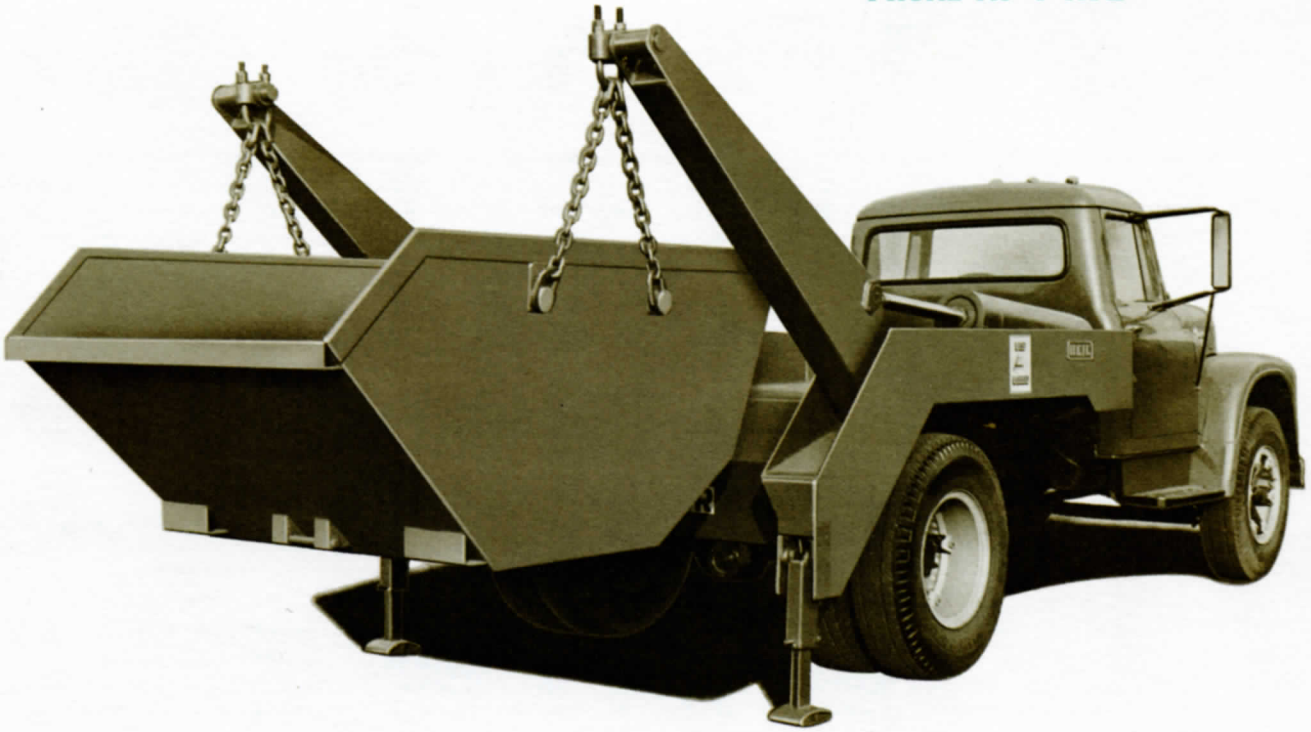
MODEL	**CH-300**	**CH-400**
Series	2157	2157
Net Lifting Capacity, Pounds	9000	12,000
Standard Container Sizes, Cubic Yards, Struck Capacity	3 - 6	3 - 6
Weight, Pounds	3200	3300
Hydraulic Pump Capacity GPM	24.6	24.6
Normal Operating Pressure (PSI)	1000	1000
Relief Pressure Setting (PSI)	1200	1200
Hoist Cylinders, Bore and Stroke	7 x 28	8 x 28
Jackleg Stabilizers	Mechanical	Mechanical
Cycle Time (Seconds @ 1500 RPM Pump Speed)		
Down	20	27
Up	18	24
TRUCK REQUIREMENTS		
Single Axle		
Back of cab to C/L of axle	60"	60"
Center of gravity — ahead of rear of frame (average)	32"	32"
Back of cab to end of frame (minimum)	88"	88"
GVW (Based on maximum rated capacity of hoist)	19,500#	24,000

In addition to above, all truck chassis should meet chassis counterbalance requirements to assure operation at full rated capacity — see Bulletin LL-64128

SPECIFICATIONS
SERIES 3878
LOAD LUGGER® SYSTEM

CH-300M
CH-400M
and
Containers

TRUCKWELD EQUIPMENT CO.
739-9th NORTH SEATTLE, WASH. 98109
PHONE AT 4-1172



9,000 TO 12,000 POUND NET LIFTING CAPACITY

The Load Lugger System of handling materials offers countless opportunities to reduce costs.
A Load Lugger-equipped truck, plus Load Lugger Containers, replaces a number of conventional trucks.
Investment in equipment is lower, less labor is needed, operation and maintenance costs less.
The Load Lugger system handles all types of materials — liquids, solids or gases.
It gives you greatest versatility and efficiency for your money.

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DISTRIBUTORS IN PRINCIPAL CITIES

LL-65108

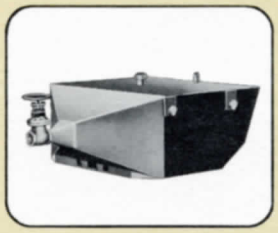
STANDARD HEIL LOAD LUGGER CONTAINERS

For Use with all series 3878 Load Lugger hoists

All Containers available with casters or designed for use with dollies

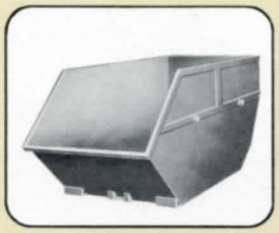
HS—For bulk materials. Open top, flared sides. Empty containers can be nested for storage or transportation.

OE — Skip-type, for heavy bulk materials — discharge end at ground level for easy loading. Open top, flared sides. Empty containers can be nested.



EX — For all types of fluids. Steel construction. Also available in stainless or aluminum or with neoprene, rubber, synthetic resin or similar linings.

LS — For sludge and liquids. Fully enclosed. Full width discharge door, and one top charging door.



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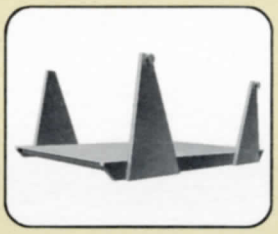

Pallets — Heavy duty construction, designed to transport and store lumber, roofing materials and building materials in bags, kegs, drums and crates.

Tanks — For all types of fluids. Steel construction. Also available in stainless, aluminum, or with neoprene, rubber, synthetic resins and similar linings.

STANDARD CONTAINER SPECIFICATIONS

TYPE	CAPACITY CU. YDS.	WEIGHT EMPTY (LBS.)	HEIGHT (INCHES)	LIP HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	LENGTH OF BASE (INCHES)	WIDTH OF BASE (INCHES)
HS	5 CU. YDS.	1455	40	28	115	70	60	64
OE	5 CU. YDS.	1455	40		115	70	88	64
ES	6 CU. YDS.	1660	48	24	114	64	63	64
	8 CU. YDS.	2040	60	30	120	64	63	64
	10 CU. YDS.	2380	72	36	127	64	64	64
AB	5 CU. YDS.	1655	42	21	108	64	60	64
	6 CU. YDS.	1888	48	24	114	64	63	64
	8 CU. YDS.	2312	60	30	120	64	63	64
	10 CU. YDS.	2550	72	36	127	64	64	64
AB2	8 CU. YDS.	2312	60	30	120	64	63	64
	10 CU. YDS.	2550	72	36	127	64	64	64
LS	5 CU. YDS.	1700	40	40	120	64	60	64
	6 CU. YDS.	1850	48	48	120	64	60	64
PALLETS		520	40	3	66	60	60	64
		660	40	16	96	60	54	64

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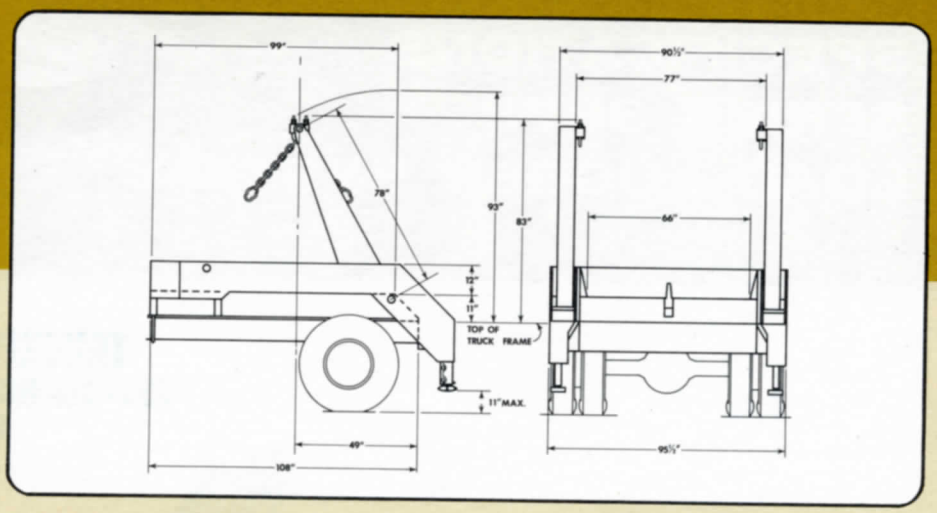

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SPECIFICATIONS — MODELS CH-300M and CH-400M

SUBFRAME — All-welded steel construction consisting of two ten inch channel longitudinal members, 10" channel front crossmember, and 5" angle and 4" H beam rear crossmembers, quarter inch steel deck, and side walls with heavy bosses for cylinder and arm pivots.

BOOM — Consists of two, all-welded box-section lift arms connected at the base with shear pins to a 2 11/16" diameter load shaft which pivots in heavy bronze bushings in the subframe. Boom assembly is operated by two heavy-duty, double acting hydraulic cylinders pivoted in bronze bushings at both ends.

HYDRAULIC SYSTEM — Reservoir, a compact unit assembly with four-way control valve mounted on bottom, is located at front of subframe beneath deck and is equipped with a vented filler plug. Pump is a gear type mounted separately from reservoir and valve for ease of installation. All fittings, hoses, and piping are high pressure type with burst pressure at least four times operating pressure. Lift cylinders are heavy duty, double acting type which have removable heads for access to internal parts. Cylinder rods are chrome plated.

JACKLEGS — Ground-seeking, self-locking mechanical type, mounted in outrigger extensions of the subframe. Provides support for over-hung load during lifting and lowering operation.

MODEL	**CH-300M**	**CH-400M**
Series	3878	3878
Net Lifting Capacity, Pounds	9000	12,000
Standard Container Sizes, Cubic Yards, Struck Capacity	5 - 10	5 - 10
Weight, Pounds	4500	4700
Hydraulic Pump Capacity GPM	24.6	24.6
Normal Operating Pressure (PSI)	1000	1000
Relief Pressure Setting (PSI)	1200	1200
Hoist Cylinders, Bore and Stroke	7 x 34	8 x 34
Jackleg Stabilizers	Mechanical	Mechanical
Cycle Time (Seconds @ 1500 RPM Pump Speed)		
Down	25	32
Up	22	28
TRUCK REQUIREMENTS		
Single Axle		
Back of cab to C/L of axle	84"	84"
Center of gravity — ahead of rear frame (average)	49"	49"
Back of cab to end of frame (minimum)	114"	114"
GVW (Based on maximum rated capacity of hoist)	22,000#	26,000#

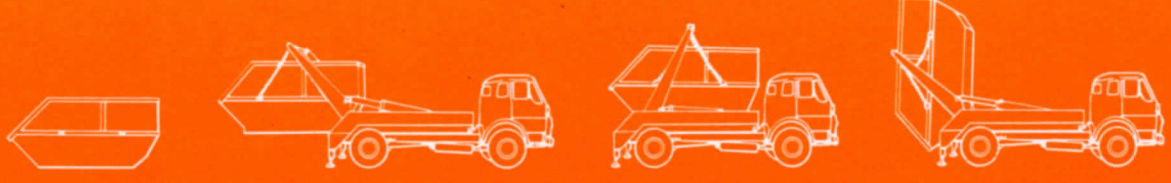
In addition to above, all truck chassis should meet chassis counterbalance requirements to assure operation at full rated capacity — see Bulletin LL-64128

SPECIFICATIONS
SERIES 3163
LOAD LUGGER® SYSTEM

CH-350
CH-500
and
Containers

10,500 TO 15,000 POUND NET LIFTING CAPACITY

The Load Lugger System of handling materials offers countless opportunities to reduce costs.
A Load Lugger-equipped truck, plus Load Lugger Containers, replaces a number of conventional trucks.
Investment in equipment is lower, less labor is needed, operation and maintenance costs less.
The Load Lugger system handles all types of materials — liquids, solids or gases.
It gives you greatest versatility and efficiency for your money.



HEIL Quality Products

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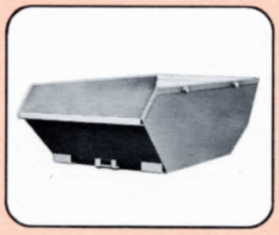
DISTRIBUTORS IN PRINCIPAL CITIES

LL-65103

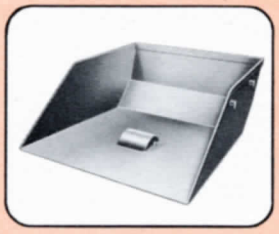
STANDARD HEIL LOAD LUGGER CONTAINERS

For Use with all series 3163 Load Lugger hoists

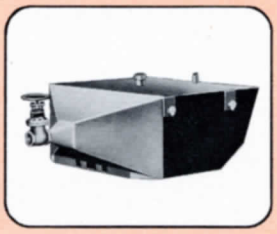
All Containers available with casters or designed for use with dollies



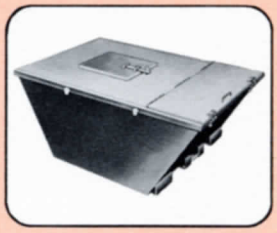
HS—For bulk materials. Open top, flared sides. Empty containers can be nested for storage or transportation.



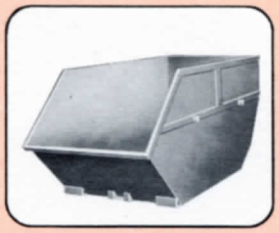
OE — Skip-type, for heavy bulk materials — discharge end at ground level for easy loading. Open top, flared sides. Empty containers can be nested.



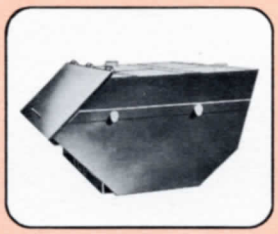
EX — For all types of fluids. Steel construction. Also available in stainless or aluminum or with neoprene, rubber, synthetic resin or similar linings.



LS — For sludge and liquids. Fully enclosed. Full width discharge door, and one top charging door.



ES — For light bulk materials. Open end above dumping lip, open top, extended sides for increased volume.



AB — For loose materials — dusts, powders, and refuse. Fully enclosed. Large discharge door. Two top sliding charging doors. (Available as AB-2 which has two hinged side charging doors.)

Pallets — Heavy duty construction, designed to transport and store lumber, roofing materials and building materials in bags, kegs, drums and crates.

Tanks — For all types of fluids. Steel construction. Also available in stainless, aluminum, or with neoprene, rubber, synthetic resins and similar linings.

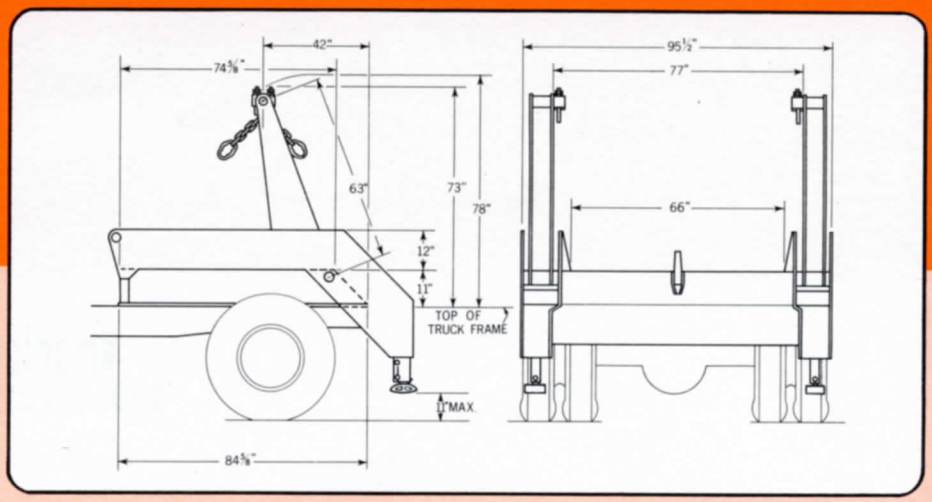
STANDARD CONTAINER SPECIFICATIONS

TYPE	CAPACITY CU. YDS.	WEIGHT EMPTY (LBS.)	HEIGHT (INCHES)	LIP HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	LENGTH OF BASE (INCHES)	WIDTH OF BASE (INCHES)
HS	4 CU. YDS.	1240	36	28	100	70	48	64
	5 CU. YDS.	1455	42	30	104	70	48	64
OE	4 CU. YDS.	1240	36		100	70	76	64
	5 CU. YDS.	1455	46		104	70	78	64
ES	6 CU. YDS.	1660	56	28	100	64	48	64
	8 CU. YDS.	2040	72	36	104	64	48	64
AB	4 CU. YDS.	1408	40	20	92	64	48	64
	5 CU. YDS.	1655	48	24	96	64	48	64
	6 CU. YDS.	1888	56	28	100	64	48	64
	8 CU. YDS.	2208	72	36	104	64	48	64
AB2	6 CU. YDS.	1888	56	28	100	64	48	64
	8 CU. YDS.	2208	72	36	104	64	48	64
LS	800 GALS.	1400	40	40	106	64	46	64
	1000 GALS.	1650	48	48	106	64	46	64
PALLETS		460	36	3	56	60	50	64
		580	36	16	84	60	30	64

Where dimensions are critical, confirmation should be obtained from factory.

SPECIAL CONTAINER DESIGNS ON REQUEST

The company reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without references to illustration or specifications used herein.



The Heil Load Lugger is a truck-mounted hydraulically operated hoisting mechanism designed to handle detachable containers in a variety of types and sizes. It consists of a boom assembly pivoted at the rear of a flat bed subframe, jackleg stabilizers to provide support for the load during lifting, and a dump hook for tilting the containers to discharge the load. Its simple design and rugged construction, using top quality heavy-duty components throughout, insure long-life, trouble-free, fast, smooth power for handling heavy loads.

SPECIFICATIONS — MODELS CH-350 and CH-500

SUBFRAME — All-welded steel construction consisting of two ten inch channel longitudinal members, 10" channel front crossmember, and 5" angle and 4" H beam rear crossmembers, quarter inch steel deck, and side walls with heavy bosses for cylinder and arm pivots.

BOOM — Consists of two, all-welded lift arms connected at the base with shear pins to a 2 11/16" diameter load shaft which pivots in heavy bronze bushings in the subframe. Boom assembly is operated by two heavy-duty, double acting hydraulic cylinders pivoted in bronze bushings at both ends.

HYDRAULIC SYSTEM — Reservoir, a compact unit assembly with four-way control valve mounted on bottom, is located at front of subframe beneath deck and is equipped with a vented filler plug. Pump is a gear type mounted separately from reservoir and valve for ease of installation. All fittings, hoses, and piping are high pressure type with burst pressure at least four times operating pressure. Lift cylinders are heavy duty, double acting type which have removable heads for access to internal parts. Cylinder rods are chrome plated.

JACKLEGS — Ground-seeking, self-locking mechanical type, mounted in outrigger extensions of the subframe. Provides support for over-hung load during lifting and lowering operation.

MODEL	**CH-350**	**CH-500**
Series	3163	3163
Net Lifting Capacity, Pounds	10,500	15,000
Standard Container Sizes, Cubic Yards, Struck Capacity	4 - 8	4 - 8
Weight, Pounds	3800	4000
Hydraulic Pump Capacity GPM	24.6	24.6
Normal Operating Pressure (PSI)	1000	1000
Relief Pressure Setting (PSI)	1200	1200
Hoist Cylinders, Bore and Stroke	7 x 34	8 x 34
Jackleg Stabilizers	Mechanical	Mechanical
Cycle Time (Seconds @ 1500 RPM Pump Speed)		
Down	24	31
Up	20	27
TRUCK REQUIREMENTS		
Single Axle		
Back of cab to C/L of axle	72"	72"
Center of gravity — ahead of rear frame (average)	42"	42"
Back of cab to end of frame (minimum)	100"	100
GVW (Based on maximum rated capacity of hoist)	23,000#	30,000#

In addition to above, all truck chassis should meet chassis counterbalance requirements to assure operation at full rated capacity — see Bulletin LL-64128